

SEQUENÇE LISTING

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<130> 23611-A USA

<140> As yet unassigned

<141> 2001-06-25

<150> 60/213,653

<151> 2000-06-23

<160> 45

<170> PatentIn Ver. 2.0

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<213> Homo sapiens

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Arg Arg

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Ala Lys Lys Ala Lys Ser Pro Lys Lys Ala Lys Ala Ala Lys Pro Lys
1 5 10 15

Lys Ala Pro Lys Ser Pro Ala Lys Ala Lys
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Ser Gly Pro Ser Asn Thr Pro Pro Glu Ile
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Arg Ala His Tyr Asn Ile Val Thr Phe
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Thr Asp Leu Tyr Cys Tyr Glu Gln Leu Asn
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Ala Glu Pro Asp Arg Ala His Tyr Asn Ile
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<400> 7
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Lys Cys Asp Ser Thr Leu Arg Leu Cys Val Gln Ser Thr His Val Ile
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Arg Thr Leu
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Gly Thr Leu Gly Ile Val Cys Pro Ile Cys
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Asp Thr Pro Leu Ile Pro Leu Thr Ile Phe
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Pro Arg Ser Pro Thr Val Phe Tyr Asn Ile Pro Pro Met Pro Leu
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Phe Leu Arg Gly Arg Ala Tyr Gly Leu
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<210> 12

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Arg Gly Ile Lys Glu His Val Ile Gln Asn Ala Phe Arg Lys Ala
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<213> Epstein-Barr Virus
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Glu Glu Asn Leu Leu Asp Phe Val Arg Phe
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Ile Val Thr Asp Phe Ser Val Ile Lys
<210> 15
<211> 9
<212> PRT
<213> Homo sapiens
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Leu Leu Gly Arg Asn Ser Pro Glu Val
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<212> PRT
<213> Murine sarcoma virus
<400> 16
Lys Leu Val Val Gly Ala Arg Gly Val Gly Lys Ser
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<210> 17
<211> 12
<212> PRT
<213> Homo sapiens
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Lys Leu Val Val Gly Ala Val Gly Val Gly Lys
<210> 18
<211> 16
<212> PRT
<213> Homo sapiens
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Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr Ser Ala Met Arg Asp
<210> 19
<211> 8
<212> PRT
<213> Homo sapiens
<400> 19
Gly Leu Glu Glu Tyr Ser Ala Met
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Glu Leu Val Ser Glu Phe Ser Arg Met Ala
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His Leu Asp Met Leu Arg His Leu Tyr Gln Gly Cys Gln Val Val
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<211> 9 <212> PRT

<213> Homo sapiens

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<213> Homo sapiens
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Ser Arg Leu Leu Gly Ile Cys Leu Thr Ser Thr Val Gln Leu Val
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<210> 23
<211> 9
<212> PRT
<213> Homo sapiens
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Glu Ala Asp Pro Thr Gly His Ser Tyr
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<211> 10
<212> PRT
<213> Homo sapiens
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Leu Leu Asp Gly Thr Ala Thr Leu Arg Leu
                  5
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<210> 25
<211> 9
<212> PRT
<213> Homo sapiens
<400> 25
Tyr Leu Glu Pro Gly Pro Val Thr Ala
 1
<210> 26
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<400> 26
Met Leu Leu Ala Val Leu Tyr Cys Leu
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<211> 9
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<213> Homo sapiens
<400> 27
Tyr Met Asn Gly Thr Met Ser Gln Val
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<210> 28
<211> 9
<212> PRT
<213> Homo sapiens
<400> 28
Tyr Met Asn Gly Thr Met Ser Glu Val
<210> 29
<211> 21
<212> PRT
<213> Homo sapiens
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Ile Gly Cys Trp Tyr
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<400> 30
Thr Pro Pro Lys Lys Lys Arg Lys Val
                 5
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<210> 32
<211> 26
<212> PRT
<213> Homo sapiens
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Ala Lys Lys Ala Lys Ser Pro Lys Lys Ala Lys Ala Ala Lys Pro Lys
Lys Ala Pro Lys Ser Pro Ala Lys Ala Lys
             20
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<211> 18
<212> PRT
<213> Homo sapiens
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Ser Arg Ser Arg Tyr Tyr Arg Gln Arg Gln Arg Ser Arg Arg Arg Arg
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Arg Arg
<210> 34
<211> 255
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human/murine
      chimeric single chain binding polypeptide (C6.5
      sFv)
<400> 34
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Gln Val Gln Leu Leu Gln Ser Gly Ala Glu Leu Lys Lys Pro Gly Glu

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Tyr Met
35 40 45

Gly Leu Ile Tyr Pro Gly Asp Ser Asp Thr Lys Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Val Asp Lys Ser Val Ser Thr Ala Tyr 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Pro Ser Asp Ser Ala Val Tyr Phe Cýs 85 90 95

Ala Arg His Asp Val Gly Tyr Cys Ser Ser Ser Asn Cys Ala Lys Trp
100 105 110

Pro Glu Tyr Phe Gln His Trp Gly Gln Gly Thr Leu Val Thr Val Ser 115 120 125

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 130 135 140

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln 145 150 155 160

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu 180 185 190

Ile Tyr Gly His Thr Asn Arg Pro Ala Gly Val Pro Asp Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Phe Arg 210 215 220

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu 225 230 235 240

Ser Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
245 250 255

<210> 35

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<211> 765
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human/murine
      chimeric single chain binding polypeptide (C6.5
      sFv)
<400> 35
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tcctgtaagg gttctggata cagctttacc agctactgga tcgcctgggt gcgccagatg 120
cccgggaaag gcctggagta catggggctc atctatcctg gtgactctga caccaaatac 180
agcccgtcct tccaaggcca ggtcaccatc tcagtcgaca agtccgtcag cactgcctac 240
ttgcaatgga gcagtctgaa gccctcggac agcgccgtgt atttttgtgc gagacatgac 300
qtqqqatatt qcaqtaqttc caactgcgca aagtggcctg aatacttcca gcattggggc 360
cagggcaccc tggtcaccgt ctcctcaggt ggaggcggtt caggcggagg tggctctggc 420
ggtggcggat cgcagtetgt gttgacgcag ccgccctcag tgtctgcggc cccaggacag 480
aaqqtcacca teteetgete tggaageage tecaacattg ggaataatta tgtateetgg 540
taccagcage teccaggaae ageceecaaa etecteatet atggteacae caateggeee 600
gcaggggtcc ctgaccgatt ctctggctcc aagtctggca cctcagcctc cctggccatc 660
agtgggttcc ggtccgagga tgaggctgat tattactgtg cagcatggga tgacagcctg 720
agtggttggg tgttcggcgg agggaccaag ctgaccgtcc taggt
<210> 36
<211> 269
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human/murine
      chimeric single chain binding polypeptide (C6ML3-9
      sFv')
<400> 36
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
  1
                  5
                                      10
                                                          15
Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
             20
Trp Ile Ala Trp Val Arq Gln Met Pro Gly Lys Gly Leu Glu Tyr Met
         35
                             40
                                                  45
Gly Leu Ile Tyr Pro Gly Asp Ser Asp Thr Lys Tyr Ser Pro Ser Phe
                         55
     50
                                              60
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Gln Gly Gln Val Thr Ile Ser Val Asp Lys Ser Val Ser Thr Ala Tyr 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Pro Ser Asp Ser Ala Val Tyr Phe Cys 85 90 95

Ala Arg His Asp Val Gly Tyr Cys Ser Ser Ser Asn Cys Ala Lys Trp 100 105 110

Pro Glu Tyr Phe Gln His Trp Gly Gln Gly Thr Leu Val Thr Val Ser 115 120 125

Ser Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser 130 135 140

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln 145 150 155 160

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu 180 185 190

Ile Tyr Asp His Thr Asn Arg Pro Ala Gly Val Pro Asp Arg Phe Ser
195 200 205

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Phe Arg 210 215 220

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Tyr Thr Leu 225 230 235 240

Ser Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala 245 250 255

Ala Ala His His His His His Gly Gly Gly Cys 260 265

<210> 37

<211> 807

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Human/murine chimeric single chain binding polypeptide (C6ML3-9

sFv')

<400> 37 caggtgcagc tggtgcagtc tggggcagag gtgaaaaagc ccggggagtc tctgaagatc 60 tcctgtaagg gttctggata cagctttacc agctactgga tcgcctgggt gcgccagatg 120 cccgggaaag gcctggagta catggggctc atctatcctg gtgactctga caccaaatac 180 agcccgtcct tccaaggcca ggtcaccatc tcagtcgaca agtccgtcag cactgcctac 240 ttgcaatgga gcagtctgaa gccctcggac agcgccgtgt atttttgtgc gagacatgac 300 gtgggatatt gcagtagttc caactgcgca aagtggcctg aatacttcca gcattggggc 360 cagggcaccc tggtcaccgt ctcctcaggt ggaggcggtt caggcggagg tggctctggc 420 ggtggcggat cgcagtctgt gttgacgcag ccgccctcag tgtctgcggc cccaggacag 480 aaggtcacca totoctqctc tgqaagcagc tocaacattg qqaataatta tqtatoctqq 540 taccageage teccaggaae ageceecaaa etecteatet atgateacae caateggeee 600 gcaggggtcc ctgaccgatt ctctggctcc aagtctggca cctcagcctc cctggccatc 660 agtgggttcc ggtccgagga tgaggctgat tattactgtg cctcctggga ctacaccctc 720 tegggetggg tgtteggegg aggaaceaag etgaeegtee taggtgegge egeacaeeat 780 catcaccatc acggtggtgg cggctgc 807

<210> 38

<211> 282

<212> PRT

<213> Artificial Sequence

<220>

<400> 38

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu

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Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Tyr Met
35 40 45

Gly Leu Ile Tyr Pro Gly Asp Ser Asp Thr Lys Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Val Asp Lys Ser Val Ser Thr Ala Tyr 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Pro Ser Asp Ser Ala Val Tyr Phe Cys
85 90 95

Ala Arg His Asp Val Gly Tyr Cys Ser Ser Ser Asn Cys Ala Lys Trp

Pro Glu Tyr Phe Gln His Trp Gly Gln Gly Thr Leu Val Thr Val Ser 115 120 125

105

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 130 135 140

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln 145 150 155 160

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu 180 185 190

Ile Tyr Asp His Thr Asn Arg Pro Ala Gly Val Pro Asp Arg Phe Ser
195 200 205

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Phe Arg 210 215 220

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Tyr Thr Leu 225 230 235 240

Ser Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala 245 250 255

Ala Ala His His His His His Gly Gly Gly Cys Leu Glu Ser 260 265 270

Ser Ser Ser Gly Ser Glu Lys Asp Glu Leu 275 280

<210> 39

<211> 846

<212> DNA

<213> Artificial Sequence

<220>

<400> 39

caggtgcagc tggtgcagtc tggggcagag gtgaaaaagc ccggggagtc tctgaagatc 60

<210> 40

<211> 287

<212> PRT

<213> Artificial Sequence

<220>

<400> 40

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Tyr Met 35 40 45

Gly Leu Ile Tyr Pro Gly Asp Ser Asp Thr Lys Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Val Asp Lys Ser Val Ser Thr Ala Tyr 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Pro Ser Asp Ser Ala Val Tyr Phe Cys 85 90 95

Ala Arg His Asp Val Gly Tyr Cys Ser Ser Ser Asn Cys Ala Lys Trp
100 105 110

Pro Glu Tyr Phe Gln His Trp Gly Gln Gly Thr Leu Val Thr Val Ser

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 130 135 140

120

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln 145 150 155 160

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu 180 · 185 190

Ile Tyr Asp His Thr Asn Arg Pro Ala Gly Val Pro Asp Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Phe Arg 210 215 220

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Tyr Thr Leu 225 230 235 240

Ser Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala 245 250 255

Ala Ala His His His His His Gly Gly Gly Cys Leu Glu Ser 260 265 270

Ser Ser Ser Gly Ser Ser Ser Gly Ser Glu Lys Asp Glu Leu 275 280 285

<210> 41

<211> 861

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Human/murine chimeric single chain binding polypeptide (C6ML3-9sFv'-L2-KDEL)

<400> 41

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ttgcaatgga gcagtctgaa gccctcggac agcgccgtgt attttgtgc gagacatgac 300 gtgggatatt gcagtagtc caactgcgca aagtggcctg aatacttcca gcattggggc 360 cagggcaccc tggtcaccgt ctcctcaggt ggaggcggtt caggcggagg tggctctggc 420 ggtggcggat cgcagtctgt gttgacgcag ccgccctcag tgtctgcggc cccaggacag 480 aaggtcacca tctcctgctc tggaagcagc tccaacattg ggaataatta tgtatcctgg 540 taccagcagc tcccaggaac agccccaaa ctcctcatct atgatcacac caatcggccc 600 gcaggggtcc ctgaccgatt ctctggctcc aagtctggca cctcagcctc cctggccatc 660 agtgggttcc ggtccgagga tgaggctgat tattactgtg cctcctggga ctacaccctc 720 tcgggctggg tgttcggcg cggctgctc gagtctagca gctccggtc ctctagctc 840 ggatccgaaa aagatgaact g

<210> 42

<211> 296

<212> PRT

<213> Artificial Sequence

<220>

<400> 42

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Tyr Met
35 40 45

Gly Leu Ile Tyr Pro Gly Asp Ser Asp Thr Lys Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Val Asp Lys Ser Val Ser Thr Ala Tyr 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Pro Ser Asp Ser Ala Val Tyr Phe Cys 85 90 95

Ala Arg His Asp Val Gly Tyr Cys Ser Ser Ser Asn Cys Ala Lys Trp 100 105 110

Pro Glu Tyr Phe Gln His Trp Gly Gln Gly Thr Leu Val Thr Val Ser 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser

<u>i</u>

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln 145 150 155 160

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu 180 185 190

Ile Tyr Asp His Thr Asn Arg Pro Ala Gly Val Pro Asp Arg Phe Ser
195 200 205

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Phe Arg 210 215 220

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Tyr Thr Leu 225 230 235 240

Ser Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala 245 250 255

Ala Ala His His His His His Gly Gly Gly Cys Leu Glu Ser 260 265 270

Ser Ser Ser Gly Ser Ser Ser Gly Ser Lys Lys Ser Ala Lys Lys 275 280 285

Thr Pro Lys Lys Ala Lys Lys Pro 290 295

<210> 43

<211> 888

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Human/murine chimeric single chain binding polypeptide (C6ML3-9sFv'-L2-H14)

<400> 43

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ttgcaatgga gcagtctgaa gccctcggac agcgccgtgt attttgtgc gagacatgac 300 gtgggatatt gcagtagtc caactgcgca aagtggcctg aatacttcca gcattggggc 360 cagggcaccc tggtcaccgt ctcctcaggt ggaggcggtt caggcggagg tggctctggc 420 ggtggcggat cgcagtctgt gttgacgcag ccgccctcag tgtctgcggc cccaggacag 480 aaggtcacca tctcctgctc tggaagcagc tccaacattg ggaataatta tgtatcctgg 540 taccagcagc tcccaggaac agccccaaa ctcctcatct atgatcacac caatcggccc 600 gcaggggtcc ctgaccgatt ctctggctcc aagtctggca cctcagcctc cctggccatc 660 agtgggttcc ggtccgagga tgaggctgat tattactgtg cctcctggga ctacaccctc 720 tcgggctggg tgttcggcg cggctgctc gagtctagca gctccggtc ctctagctc tctagctct 840 ggatccaaga aaagcgcga aaagacccg aagaaagcga agaaaccg

<210> 44

<211> 291

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Human/murine chimeric single chain binding polypeptide (C6ML3-9sFv'-L2-nls)

<400> 44

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Tyr Met
35 40 45

Gly Leu Ile Tyr Pro Gly Asp Ser Asp Thr Lys Tyr Ser Pro Ser Phe

Gln Gly Gln Val Thr Ile Ser Val Asp Lys Ser Val Ser Thr Ala Tyr 65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Pro Ser Asp Ser Ala Val Tyr Phe Cys
85 90 95

Ala Arg His Asp Val Gly Tyr Cys Ser Ser Ser Asn Cys Ala Lys Trp
100 105 110

Pro Glu Tyr Phe Gln His Trp Gly Gln Gly Thr Leu Val Thr Val Ser 115 120 125

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln 145 150 155 160

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu 180 185 190

Ile Tyr Asp His Thr Asn Arg Pro Ala Gly Val Pro Asp Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Phe Arg 210 215 220

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Tyr Thr Leu 225 230 235 240

Ser Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala 245 250 255

Ala Ala His His His His His Gly Gly Gly Cys Leu Glu Ser 260 265 270

Ser Ser Ser Gly Ser Ser Ser Ser Gly Ser Thr Pro Pro Lys Lys Lys 275 280 285

Arg Lys Val 290

<210> 45

<211> 873

<212> DNA

<213> Artificial Sequence

<220>

<400> 45

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